EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("7153984").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 06:00
L2	3	("3920582").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 06:01
L3	3	("3053884").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 06:02
L4	0	("methanetrisulfonic").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 07:40
L5	18	methanetrisulfonic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 08:32
L6	374665	phenol	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 06:03
L7	5	l5 and l6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 06:03
L8	5	l5 same l6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 06:03
L9	0	("3053884").URPN.	USPAT	OR	ON	2007/06/12 06:09
L10	2	("6103924").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 06:10
L11	2	("20020004619").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 06:38
L12	1	("4247720").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 06:43

EAST Search History

L13	126	ketoisophorone	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 06:43
L14	1	l5 and l13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 06:43
L15	213883	sulfonic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 06:44
L16	22	l13 and l15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 06:44
L18	1	l13 same l15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 06:48
L19	17	"2149159"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:03
L20	2	("3082258").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 07:09
L21	1	"19805690"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:26
L22	580	560/254.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:39
L23	0	l13 and l22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:27
L24	0	l5 and l22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:27
L25	64920	hydroquinone	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:29

EAST Search History

L26	35	l22 and l25	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:29
L27	67055	$hydroquinone	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:39
L28	0	("methanesulfonic").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 07:40
L29	52312	methanesulfonic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:40
L30	174	methanedisulfonic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:55
L31	0	l13 and l30	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:41
L32	9	l13 and l29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 07:41
L33	0	(methanetrisulfonic and (ketoisophorone or "3,5,5-trimethyl-l, 4-benzoquinone") and hydroquinone).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 08:32
L34	0	(methanetrisulfonic and (ketoisophorone or "3,5,5-trimethyl-l, 4-benzoquinone")).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 08:33
L36	2	("20070123720").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/12 08:31
L37	1	(methane adj trisulfonic and (ketoisophorone or "3,5,5-trimethyl-l, 4-benzoquinone") and hydroquinone).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 08:32
L38	19	methane adj trisulfonic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 08:32

EAST Search History

L39	1	(methane adj trisulfonic and (ketoisophorone or "3,5,5-trimethyl-l, 4-benzoquinone")).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 08:33
L40	17	l38 not l5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 08:34
L41	16	l5 not l38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/12 08:42

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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 31	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 32	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 33	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 34	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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FILE 'HOME' ENTERED AT 05:41:16 ON 12 JUN 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 10 JUN 2007 HIGHEST RN 936909-28-3
DICTIONARY FILE UPDATES: 10 JUN 2007 HIGHEST RN 936909-28-3

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http://www.cas.org/support/stngen/stndoc/properties.html

=> e ketoisophorone/cn

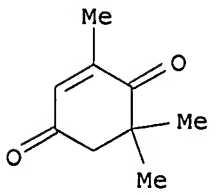
E1	1	KETOISDIN/CN
E2	1	KETOISOLACTARORUFIN/CN
E3	1 -->	KETOISOPHORONE/CN
E4	1	KETOISOSTEVIC ACID/CN
E5	1	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT (METHANOSARCINA BARKERI STRAIN FUSARO)/CN
E6	1	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT (METHANOSARCINA MAZEI STRAIN GOE1 GENE VORA)/CN
E7	1	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT (METHANOSARCINA MAZEI STRAIN GOE1 GENE VORB)/CN
E8	1	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT (METHANOSARCINA MAZEI STRAIN GOE1 GENE VORC)/CN
E9	2	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT VORA (BACTEROIDES FRAGILIS STRAIN YCH46)/CN
E10	1	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT VORA (BACTEROIDES THETAIOTAOMICRON STRAIN VPI-5482 GENE BT0329)/CN
E11	1	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT VORA (BACTEROIDES THETAIOTAOMICRON STRAIN VPI-5482 GENE BT0330)/CN
E12	1	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT VORB (BACTEROIDES FRAGILIS STRAIN YCH46)/CN

=> e3

L1 1 KETOISOPHORONE/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 1125-21-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Cyclohexene-1,4-dione, 2,6,6-trimethyl- (CA INDEX NAME)
OTHER NAMES:
CN 2,6,6-Trimethyl-2-cyclohexen-1,4-dione
CN 2,6,6-Trimethylcyclohex-2-ene-1,4-dione
CN 3,5,5-Trimethyl-2-cyclohexene-1,4-dione
CN 4-Ketoisophorone
CN 4-Oxo-α-isophorone
CN 4-Oxoisophorone
CN 6-Oxoisophorone
CN keto-Isophorone
CN Ketoisophorone
CN Oxoisophorone
CN Oxopholone
CN Oxophorone
MF C9 H12 O2
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, MEDLINE, SPECINFO, TOXCENTER, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

390 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
396 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.35	7.56

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FILE COVERS 1907 - 12 Jun 2007 VOL 146 ISS 25
FILE LAST UPDATED: 10 Jun 2007 (20070610/ED)

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=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.47	8.03

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Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e metrhanetrisulfonic acid/cn

E1	2	METRETON/CN
E2	1	METREX/CN
E3	0 -->	METRHANETRISULFONIC ACID/CN
E4	1	METRIAN/CN
E5	1	METRIAR/CN
E6	1	METRIAREZ-B/CN
E7	1	METRIAREZ-Γ/CN
E8	1	METRIBEN/CN
E9	1	METRIBOLONE/CN
E10	1	METRIBUSIN-BENEFIN MIXTURE/CN
E11	1	METRIBUZIN/CN
E12	1	METRIBUZIN DA/CN

=> e methanetrisulfonic acid/cn

E1	1	METHANETRISULFONAMIDE, N,N',N''-TRIS(1-PHENYLETHYL)-/CN
E2	1	METHANETRISULFONAMIDE, N,N',N''-TRIS(TRIMETHYLSILYL)-/CN
E3	1 -->	METHANETRISULFONIC ACID/CN
E4	1	METHANETRISULFONIC ACID, ALUMINUM SALT/CN
E5	1	METHANETRISULFONIC ACID, BARIUM SALT (2:3)/CN
E6	1	METHANETRISULFONIC ACID, BROMO-/CN

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E7            1     METHANETRISULFONIC ACID, BROMO-, TRIETHYL ESTER/CN
E8            1     METHANETRISULFONIC ACID, BROMO-, TRIMETHYL ESTER/CN
E9            1     METHANETRISULFONIC ACID, BROMO-, TRIS(TRIMETHYLSILYL) ESTER/
                    CN
E10           1     METHANETRISULFONIC ACID, CHLORO-/CN
E11           1     METHANETRISULFONIC ACID, CHLORO-, TRIS(TRIMETHYLSILYL) ESTER
                    /CN
E12           1     METHANETRISULFONIC ACID, FLUORO-/CN

=> e3
L2            1 "METHANETRISULFONIC ACID"/CN

=> d l2

L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   54322-33-7  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Methanetrisulfonic acid (7CI, 9CI)  (CA INDEX NAME)
DR   856207-29-9
MF   C H4 O9 S3
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, CSCHEM,
       GMELIN*, IFICDB, IFIPAT, IFIUDB, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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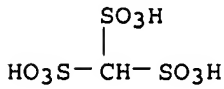

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              25 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              25 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> e sulfonic acid/cn
E1            1     SULFONIAZIDE NITRATE/CN
E2            1     SULFONIAZIDE SODIUM/CN
E3            0 --> SULFONIC ACID/CN
E4            1     SULFONIC ACID LS/CN
E5            1     SULFONIC ACID, ((3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL)
                    METHYL)-, MONOBUTYL ESTER, NICKEL COMPLEX/CN
E6            1     SULFONIC ACID, PHOSPHINO-/CN
E7            1     SULFONIC ACIDS/CN
E8            1     SULFONIC ACIDS, ALKANE, CHLORO/CN
E9            1     SULFONIC ACIDS, ALKANE, CHLORO, SODIUM SALTS/CN
E10           1     SULFONIC ACIDS, ALKANE, SODIUM SALTS/CN
E11           1     SULFONIC ACIDS, ALKANEDI-, DISODIUM SALTS/CN
E12           1     SULFONIC ACIDS, ALKANESULFONIC, CHLORO/CN

=> e methanesulfonic acid/cn
E1            1     METHANESULFONATE SULFONATASE MSUD (PSEUDOMONAS FLUORESCENS S
                    TRAIN PF-5 GENE MSUD)/CN
E2            1     METHANESULFONATE SULFONATASE; MSUD (MESORHIZOBIUM LOTI STRAI
                    N MAFF303099 GENE MLR5216)/CN
E3            1 --> METHANESULFONIC ACID/CN
E4            1     METHANESULFONIC ACID ((3'-((5-((TERT-BUTOXYCARBONYLAMINO)(IM
                    INO)METHYL)-2-(METHYLSULFANYL)THIEN-3-YL)SULFONYL)-4-(N,N'-B
```

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                  IS(TERT-BUTOXYCARBONYL)GUANIDINO)-6-METHYLBIPHENYL-2-YL)CARB
                  AMOYL)METHYL ESTER/CN
E5          1     METHANESULFONIC ACID ((3S,4R)-4-(((5-CHLOROTHIEN-2-YL)CARBON
                  YL)AMINO)-1-(((2-FLUORO-4-(2-OXO-2H-PYRIDIN-1-YL)PHENYL)CARB
                  AMOYL)METHYL)PYRROLIDIN-3-YL)METHYL ESTER/CN
E6          1     METHANESULFONIC ACID ((5R)-3-(3-FLUORO-4-(TETRAHYDROTHIOPYRA
                  N-4-YL)PHENYL)-2-OXOOXAZOLIDIN-5-YL)METHYL ESTER/CN
E7          1     METHANESULFONIC ACID ((5R)-3-(4-((1,4-DIBENZYLPIPERAZIN-2-YL
                  METHYL)ETHYLAMINO)-3-FLUOROPHENYL)-2-OXOOXAZOLIDIN-5-YL)METH
                  YL ESTER/CN
E8          1     METHANESULFONIC ACID ((5R)-3-(4-(3,6-DIHYDRO-2H-THIOPYRAN-4-
                  YL)-3,5-DIFLUOROPHENYL)-2-OXOOXAZOLIDIN-5-YL)METHYL ESTER/CN
E9          1     METHANESULFONIC ACID ((5R)-3-(4-(3,6-DIHYDRO-2H-THIOPYRAN-4-
                  YL)-3-FLUOROPHENYL)-2-OXOOXAZOLIDIN-5-YL)METHYL ESTER/CN
E10         1     METHANESULFONIC ACID ((R)-2,2-DIMETHYL-(1,3)DIOXOLAN-4-YL)ME
                  THYL ESTER/CN
E11         1     METHANESULFONIC ACID ((R)-2-OXO-3-(1-OXO-3-(2-TRIFLUOROMETHY
                  LPHENYL)-1,2-DIHYDROISOQUINOLIN-7-YL)OXAZOLIDIN-5-YL)METHYL
                  ESTER/CN
E12         1     METHANESULFONIC ACID ((R)-2-OXO-3-(8-OXO-6,7,8,9-TETRAHYDRO-
                  5H-BENZOCYCLOHEPTEN-2-YL)OXAZOLIDIN-5-YL)METHYL ESTER/CN

=> e3
L3          1 "METHANESULFONIC ACID"/CN

=> d l3

L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   75-75-2  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Methanesulfonic acid  (CA INDEX NAME)
OTHER NAMES:
CN   MCAT 1201
CN   Methylsulfonic acid
CN   NSC 3718
DR   125756-91-4, 98527-29-8, 115449-98-4, 62203-24-1, 87128-90-3, 44209-64-5,
     44209-72-5
MF   C H4 O3 S
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD,
       CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
       DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*,
       HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA,
       PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2,
       USPATFULL, VTB
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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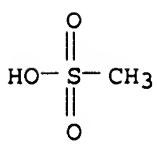

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

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             205 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            5765 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              21 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
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=> file caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        15.15      23.18

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FILE COVERS 1907 - 12 Jun 2007  VOL 146 ISS 25
FILE LAST UPDATED: 10 Jun 2007  (20070610/ED)

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=> l1 and l2
            396 L1
             25 L2
L4             0 L1 AND L2

=> l1
L5           396 L1

=> l2
L6            25 L2

=> l3
L7          5760 L3

=> d l6 1-25 ti

L6   ANSWER 1 OF 25  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Acylation process for the preparation of 2,3,5-trimethylhydroquinone
     diacylates in the presence of methanetrisulfonic acid catalyst

L6   ANSWER 2 OF 25  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Process for the manufacture of tocyl and tocopheryl acylates

L6   ANSWER 3 OF 25  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Crosslinked polyoxyalkylene-polysiloxanes for use as nonaqueous salt-type
     electrolytes for lithium secondary batteries

L6   ANSWER 4 OF 25  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Photochemical crosslinked epoxy-polyoxyalkylene-polysiloxanes for use as
     nonaqueous salt-type electrolytes for lithium secondary batteries

L6   ANSWER 5 OF 25  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Manufacture of α-tocopherol from the reaction of
     trimethylhydroquinone with isophytol or phytol in the presence of methane
     trisulfonate
```

L6 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Investigations on the acid-strength of alkanepolysulfonic acids

L6 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Improvement of the synthesis of the tripotassium methanetrisulfonate monohydrate

L6 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Process for the preparation of alkyl 3-alkoxypropionates

L6 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI The electrochemistry of a dimeric and two monomeric cis-trioxomolybdenum(VI) complexes containing cyclic triamine ligands in protic and aprotic media: model compounds for the active site in formate dehydrogenase

L6 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Alkoxylation of alcohols and phenols

L6 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI N-phenylcarbamate ester oligomers

L6 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Methanetrisulfonic acid derivatives

L6 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI 2-Hydroxyacetophenone via Fries rearrangement and related reactions. A comparative applied study

L6 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Tris(fluorosulfonyl)methane, HC(SO2F)3

L6 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI New electrolytes for direct methane fuel cells

L6 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Solid catalysts for heterogeneous reactions

L6 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Alkylation of phenols

L6 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Esterification catalysts

L6 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Acid-base equilibria in glacial acetic acid

L6 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Reaction of acetylene and acetic acid. Societe des usines chimiques Rhone-Poulenc

L6 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Reaction of oleum with AcOH or Ac2O

L6 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI The chlorination of methanetrisulfonic acid

L6 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI The salts of methanetrisulfonic acid

L6 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Methanetrisulfonic acid

L6 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN

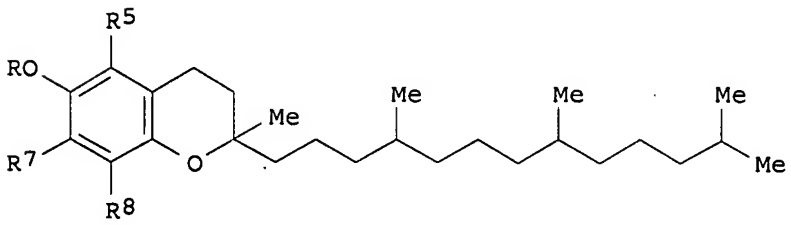
TI Methanoltrisulfonic acid

=> d l6 2,5,16,18,19 ti fbib abs

L6 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Process for the manufacture of tocyl and tocopheryl acylates
AN 2004:965239 CAPLUS
DN 141:395687
TI Process for the manufacture of tocyl and tocopheryl acylates
IN Bonrath, Werner; Haas, Alois; Hoppmann, Simone; Netscher, Thomas; Pauling, Horst
PA DSM IP Assets B.V., Neth.
SO PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004096790	A1	20041111	WO 2004-EP4144	20040419
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			EP 2003-9522	A 20030428

OS CASREACT 141:395687; MARPAT 141:395687
GI



I

AB A process for the manufacture of tocyl acylate I [R = acyl; R1 = R2 = R3 = H] or a tocopheryl acylate I [R = acyl; R5 = R7 = R8 = Me, R5 = H, R7 = R8 = Me, etc.] comprised reacting a corresponding tocol or tocopherol with an acylating agent in the presence of a catalyst of the general formula HCR1R2R3 [wherein R1, R2 and R3 each signify the sulfo group, or R1, R2 and R3 each signify a perfluoroalkylsulfonyl group whereby at least two of R1, R2 and R3 are identical such perfluoroalkyl-sulfonyl groups, or R1 signifies the pentafluorophenyl-sulfonyl group and R2 and R3 each signify an identical perfluoroalkylsulfonyl group]. The main com. form of vitamin E, being (all-rac)-α-tocopheryl acetate I [R = acetyl; R5 = R7 = R8 = Me], can be manufactured by acylation of (all-rac)-α-tocopherol according to this process.
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Manufacture of α-tocopherol from the reaction of

trimethylhydroquinone with isophytol or phytol in the presence of methane trisulfonate

AN 2004:453200 CAPLUS

DN 141:23750

TI Manufacture of α-tocopherol from the reaction of trimethylhydroquinone with isophytol or phytol in the presence of methane trisulfonate

IN Bonrath, Werner; Hoppmann, Simone; Haas, Alois; Netscher, Thomas; Pauling, Horst

PA DSM IP Assets B.V., Neth.

SO PCT Int. Appl., 13 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004046127	A1	20040603	WO 2003-EP10837	20030930
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			EP 2002-25990 A	20021121
AU 2003270295	A1	20040615	AU 2003-270295	20030930
			EP 2002-25990 A	20021121
			WO 2003-EP10837 W	20030930
DE 10393642	T5	20051110	DE 2003-10393642	20030930
			EP 2002-25990 A	20021121
			WO 2003-EP10837 A	20030930
CN 1701065	A	20051123	CN 2003-825314	20030930
			EP 2002-25990 A	20021121
US 2006020139	A1	20060126	US 2005-535603	20050519
US 7153984	B2	20061226		
			EP 2002-25990 A	20021121
			WO 2003-EP10837 W	20030930

OS CASREACT 141:23750

AB (all-rac)-α-tocopherol is prepared by the acid-catalyzed reaction of trimethylhydroquinone with isophytol or phytol in the presence of methane trisulfonate as the catalyst in an organic solvent.

L6 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN

TI Solid catalysts for heterogeneous reactions

AN 1975:64946 CAPLUS

DN 82:64946

TI Solid catalysts for heterogeneous reactions

IN Rona, Peter

PA IMI (TAMI) Institute for Research and Development

SO Ger. Offen., 21 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 2401958	A1	19740718	DE 1974-2401958	19740116
			IL 1973-41330 A	19730117
US 3920582	A	19751118	US 1974-430804	19740104
			IL 1973-41330 A	19730117
GB 1446964	A	19760818	GB 1974-1839	19740115

			IL 1973-41330	A	19730117
JP 50046587	A	19750425	JP 1974-7615		19740117
			IL 1973-41330	A	19730117

AB Catalysts for heterogeneously catalyzed reactions were prepared by impregnation of carriers with sulfonic acids. Thus, 50 g SiO2-Al2O3 pellets were treated for 30 min with 14 g benzene-1,3-disulfonic acid in H2O at 80°, dried for 6 hr at 150°, and calcined for 6 hr at 200° to give 60 g catalyst. A H2O-C2H4 mixture of mol. ratio 1:1 was passed over this catalyst at 195° to give a C2H4-C2H5OH conversion of 0.3-0.5 mole % without splitting off acid from this catalyst.

L6 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Esterification catalysts
AN 1963:14557 CAPLUS
DN 58:14557
OREF 58:2371g-h
TI Esterification catalysts
IN Touey, George P.; Goins, Rex H.
PA Eastman Kodak Co.
SO 3 pp.
DT Patent
LA Unavailable

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3053884		19620911	US 1959-845336	19591009

AB CH2(SO3H)2 and CH(SO3H)3 are superior catalysts for preparing esters by treating saturated aliphatic mono- and polyhydroxy alcs. with phenyl dicarboxylic acids or saturated aliphatic carboxylic acids and their anhydrides. A lower concentration of catalyst is required and the ester produced is nearly colorless and is heat stable. Two moles phthalic anhydride and five moles BuOH were refluxed 7 hrs. in the presence of various acid catalysts. The catalyst used, the catalyst concentration based on the phthalic anhydride, and the percent phthalic acid in the product are: CH2(SO3H)2, 0.1, 0.02; CH(SO3H)3, 0.1, 0.03; H2SO4, 0.1, 0.35; MeSO3H, 0.2, 1.6; MeC6H4SO3H, 1.0, 2.0; (CH2SO3H)2, 0.2, 0.85. Data are given which show the superiority of these two catalyst for the esterification of n-octyl alc. with adipic acid and glycerol with 2-ethylhexanoic acid.

L6 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
TI Acid-base equilibria in glacial acetic acid
AN 1953:70596 CAPLUS
DN 47:70596
OREF 47:11919f-i
TI Acid-base equilibria in glacial acetic acid
AU Smith, Thor L.; Elliott, John H.
CS Hercules Powder Co., Wilmington, DE
SO Journal of the American Chemical Society (1953), 75, 3566-71
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA Unavailable
AB Values of Ho for dilute solns. (5 + 10-4 to 5 + 10-3 M) of 11 strong acids in AcOH containing 0.12% water were measured by use of indicators α-naphtholbenzein (I) and o-nitroaniline. Ho = -log(BH+)/(B) + pKa, where (BH+) and (B) are the concns. of the acidic and basic forms of an indicator, and pKa is the thermodynamic dissociation constant for the conjugate acid of the indicator. The pKa for I was evaluated as 0.53. The order of increasing acid strength at equal molarities is: HCl, methanesulfonic, sulfuric, carboxymethanesulfonic, chloromethanesulfonic, chlorocarboxymethanesulfonic, HBr, perchloric, methanedisulfonic, chloromethanedisulfonic, and methanetrisulfonic acids. Ho values for anhydrous solns. of 4 monobasic acids at 5 + 10-3 M were measured, and from the increased acidity found, equilibrium consts. for the reaction of the acids with water were calculated H2SO4 was found to be monobasic. Dissociation

consts., Kc, of HCl, HBr, HClO4, and H2SO4 in AcOH (calculated from conductivity data
of Kolthoff and Willman (C.A. 28, 3644.1)) are 5.1 + 10-10, 1.9 + 10-7, 9 + 10-7, and 7.4 + 10-9, resp. The fact that values of ΔpKc from conductivity and from Ho data are in reasonable agreement shows that equilibrium in AcOH involve, primarily, undissocd. species.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	39.10	62.28
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:04:45 ON 12 JUN 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:01:07 ON 12 JUN 2007
FILE 'CAPLUS' ENTERED AT 07:01:07 ON 12 JUN 2007
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	39.10	62.28
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

=> d his

(FILE 'HOME' ENTERED AT 05:41:16 ON 12 JUN 2007)

FILE 'REGISTRY' ENTERED AT 05:41:32 ON 12 JUN 2007
E KETOISOPHORONE/CN
L1 1 E3

FILE 'CAPLUS' ENTERED AT 05:42:06 ON 12 JUN 2007

FILE 'REGISTRY' ENTERED AT 05:42:15 ON 12 JUN 2007
E METRHANETRISULFONIC ACID/CN
E METHANETRISULFONIC ACID/CN
L2 1 E3
E SULFONIC ACID/CN
E METHANESULFONIC ACID/CN
L3 1 E3

FILE 'CAPLUS' ENTERED AT 05:44:02 ON 12 JUN 2007
L4 0 L1 AND L2
L5 396 L1

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L6            25 L2
L7          5760 L3

=> toluenesulfonic
          20641 TOLUENESULFONIC
              1 TOLUENESULFONICS
L8        20642 TOLUENESULFONIC
                (TOLUENESULFONIC OR TOLUENESULFONICS)

=> methanetrisulfonic
L9            37 METHANETRISULFONIC

=> l8(l)l9
L10            1 L8(L)L9

=> d l10 1 ti fbib abs

L10  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Alkylation of phenols
AN   1963:468923  CAPLUS
DN   59:68923
OREF 59:12707d-f
TI   Alkylation of phenols
IN   McConnell, Wayne V.; Davis, Herman E.
PA   Eastman Kodak Co.
SO   2 pp.
DT   Patent
LA   Unavailable
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    --------------------     --------
PI   US 3082258                  19630319    US 1960-28557            19600512
                                             US                       19600512
AB   The preparation of 2,6-di-tert-butyl-4-methylphenol (I) from 4-methylphenol
     (II) and isobutylene using hydrated methanedi- or trisulfonic acid
     catalysis was described.  I was useful as an antioxidant and stabilizer
     for fats and oils.  Thus, 112 g. isobutylene was bubbled through a flask
     containing 108 g. II and 1.1 g. methanedisulfonic acid dihydrate (III) in 100
     cc. benzene.  In the initial stages the temperature varied from 25-40°
     due to the cooling effect of isobutylene refluxing in a dry ice-acetone
     cooled condenser.  Thereafter the temperature was held at 40° for a total
     reaction time of 6 hrs.  The supernatant liquid was decanted from the
     catalyst.  Unreacted II (6%) and 2-tert-butyl-4-methylphenol (31%
     conversion) were extracted with aqueous NaOH.  After removal of C6H6, I was
     obtained (63% conversion), m. 68-9° (50% aqueous MeOH).  Under the same
     conditions, 5.5 g. III gave an 88% conversion to I.  Only a 20% conversion
     resulted from use of 1,2-ethanedisulfonic acid.  Benzenedisulfonic acid
     caused polymerization of isobutylene.  When p-toluenesulfonic
     acid or H2SO4 was used in concentration of 5% based on the weight of II the
product
     had poorer color and odor.  White, odorless I could also be prepared in 84
     and 80% conversions, resp., using 2.2 g. III and no solvent or using 1% by
     weight methanetrisulfonic acid trihydrate.


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=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    62.40      85.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -4.68      -4.68
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SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:22:07 ON 12 JUN 2007